

Project: **Mariaville Rd Bridge Rehabilitation**
Client: Thruway Job No.: ALB-2300017.07
Calculated By: J. Landry Date: 8/13/2026
Checked By: R. Myers Date: 8/25/2026

QUANTITY WORKUPS

ITEM NO. **555.0021** ITEM NAME: **CONCRETE FOR STRUCTURES, PERFORMANCE** UNIT: **CY**

Drawing / Detail References: _____

Calculations:

JOINTS:

	LENGTH			WIDTH			DEPTH			VOLUME		
BA	42.151	FT	x	1.00	FT	0.420	FT	=	17.70	CF	=	0.66 CY
P1	42.151	FT	x	3.00	FT	1.250	FT	=	158.07	CF	=	5.85 CY
P2	42.151	FT	x	1.00	FT	1.000	FT	=	42.15	CF	=	1.56 CY
P3	42.151	FT	x	3.00	FT	1.250	FT	=	158.07	CF	=	5.85 CY
EA	42.151	FT	x	1.00	FT	0.420	FT	=	17.70	CF	=	0.66 CY
											14.58	CY TOTAL JOINTS

Total 14.58 CY

SAY 15 CY

SHEET 1 OF 1

Estimated Quantity: **15 CY**

Project: **Mariaville Rd Bridge Rehabilitation**
 Client: Thruway Job No.: ALB-2300017.07
 Calculated By: J. Landry Date: 2/2/2026
 Checked By: R. Myers Date: 8/25/2026

QUANTITY WORKUPS

ITEM NO. 559.03 ITEM NAME: PROTECTIVE SEALING OF EXISTING STRUCTURAL CONCRETE AND EXISTING UNIT: SF

Drawing / Detail References: _____

Calculations:

LENGTH				WIDTH				
1	x	226.60	FT	x	39.00	FT	=	8837.4 SF top of superstructure slab
2	x	226.60	FT	x	1.33	FT	=	602.76 SF fascias
2	x	226.60	FT	x	2.44	FT	=	1105.81 SF underside of overhangs
								10546.0 SF superstructure

HEIGHT				WIDTH				
5.75	FT	x	43.44	FT	=	249.8	SF	begin abutment
8.55	FT	x	22.54	FT	=	192.7	SF	begin abutment left ww
8.75	FT	x	28.64	FT	=	250.6	SF	begin abutment right ww
13.80	FT	x	90.46	FT	=	1248.3	SF	pier 1
13.80	FT	x	90.46	FT	=	1248.3	SF	pier 2
13.80	FT	x	90.46	FT	=	1248.3	SF	pier 3
5.75	FT	x	34.36	FT	=	197.6	SF	end abutment
8.75	FT	x	26.44	FT	=	231.4	SF	end abutment left ww
8.85	FT	x	22.54	FT	=	199.5	SF	end abutment right ww
								5066.5 SF substructures

HEIGHT				WIDTH				
25.00	FT	x	22.00	FT	=	550.0	SF	begin approach
25.00	FT	x	22.00	FT	=	550.0	SF	end approach
								1100.0 SF approach slabs

TOTAL = 16712.5 SF superstructure + substructures + approaches

Total 16,712.50 SF

SAY 18,384 SF

SHEET 1 OF 1

Estimated Quantity: **18500 SF**

Project: **Mariaville Rd Bridge Rehabilitation**
Client: Thruway Job No.: ALB-2300017.07
Calculated By: R. Myers Date: 8/26/2026
Checked By: J. Adamczak Date: 9/30/2026

QUANTITY WORKUPS

ITEM NO. 564.20010008 ITEM NAME: HOT-DIP GALVANIZING OF STRUCTURAL STEEL UNIT: LB

Drawing / Detail References: _____

Calculations:

Galvanized steel for new sign support: 4500 lb

See quantity workup for Item 564.510003

SHEET 1 OF 1

Estimated Quantity: 4500 LB

Project: **Mariaville Rd Bridge Rehabilitation**
 Client: Thruway Job No.: ALB-2300017.07
 Calculated By: R. Myers Date: 8/26/2026
 Checked By: J. Landry Date: 8/26/2026

QUANTITY WORKUPS

ITEM NO. **564.510003** ITEM NAME: **STRUCTURAL STEEL** UNIT: **LB**

Drawing / Detail References: _____

Calculations:

Sign Support			
	W12x50 Support @ 9.5'	=	Connection PI 10"x26.75"x0.75" =
ck	1 req'd @50 lbs / ft	= 475.00 lbs	ck 2 req'd = 113.78 lbs
	W12x50 Support @ 4.12'	=	Stiffener PI 4"x0.75"x11.44" =
ck	1 req'd @50 lbs / ft	= 206.00 lbs	ck 4 req'd = 38.93 lbs
	W12x26 Support @ 8'	=	
ck	2 req'd @26 lbs / ft	= 416.00 lbs	
	W27x84 New Diaphragms @ 6.79'	=	
ck	2 req'd @84 lbs / ft	= 1140.72 lbs	
	Connection PI 12.25"x7"x0.75"		
ck	2 req'd	= 36.47 lbs	
	Connection PI 12.25"x9"x0.75"		
ck	4 req'd	= 93.79 lbs	
	Angle 8x8x1/2 @ 1'-7" ht		
ck	4 req'd @ 26.4 lb/ft	= 166.85 lbs	
	Bent PI Connection 12.25"x12"x0.5"		
ck	6 req'd	= 125.05 lbs	
	Angle 6x6x1/2 @ 12' ht		
ck	1 req'd @ 19.6 lb/ft	= 235.20 lbs	
	Angle 6x6x1/2 @ 8' ht		
ck	1 req'd @ 19.6 lb/ft	= 156.80 lbs	
	W12x50 Support @ 10'	=	
ck	1 req'd @50 lbs / ft	= 500.00 lbs	TOTAL ALL LOCATIONS: 3735.21 lbs
	Angle 8x8x1/2 @ 7" ht		add 15% for bolts and
ck	2 req'd @ 26.4 lb/ft	= 30.62 lbs	contingency: 4295.5 lbs
			Total 4295.50
			SAY 4500.00

SHEET 1 OF 1

Estimated Quantity: **4500 LB**

Project: **Mariaville Rd Bridge Rehabilitation**
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Calculated By: J. Landry Date: 1/29/2026
Checked By: R. Myers Date: 8/25/2026

QUANTITY WORKUPS

ITEM NO. **567.63** ITEM NAME: **BRIDGE JOINT SEAL** UNIT: **LF**

Drawing / Detail References: _____

Calculations:

44 FT begin abutment

44 FT pier 1

44 FT pier 2

44 FT pier 3

44 FT end abutment

Subtotal 221.43 LF

Add 5% 11.07 LF

Total 232.50 LF

SAY 233 LF

SHEET 1 OF 1

Estimated Quantity:

233

LF

Project: **Mariaville Rd Bridge Rehabilitation**
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 Calculated By: J. Landry Date: 1/29/2026
 Checked By: R. Myers Date: 8/25/2026

QUANTITY WORKUPS

ITEM NO. 570.04 ITEM NAME: PERSONAL-EXPOSURE-MONITORING SAMPLE ANALYSIS UNIT: CW

Drawing / Detail References: _____

Calculations:

ASSUME 4 WEEKS FOR PAINTING OPERATIONS

SAY 4 DC

SHEET 1 OF 1

Estimated Quantity: 4 CW

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 Calculated By: J. Landry Date: 1/29/2026
 Checked By: R. Myers Date: 8/25/2026

QUANTITY WORKUPS

ITEM NO. 570.150002 ITEM NAME: CLASS A CONTAINMENT UNIT: LS

Drawing / Detail References: _____

Calculations:

SINCE THIS IS PART OF THE WHOLE 3-COAT PAINT SYSTEM, WE WILL ASSUME 35.00% OF TOTAL SQUARE FOOT COST

TO COVER THE COST OF THE CLASS A CONTAINMENT

TOTAL COST OF PAINTING OPERATIONS UNDER ITEMS 570, 572-574: \$ 630,960.00

PERCENTAGE OF COST ASSOCIATED WITH THIS ITEM 35.00%

COST ASSOCIATED WITH THIS ITEM \$ 220,836.00

SAY 1 LS @ \$220,836

SHEET 1 OF 1

Estimated Quantity: 1 LS

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 Calculated By: J. Landry Date: 1/29/2026
 Checked By: R. Myers Date: 8/25/2026

QUANTITY WORKUPS

ITEM NO. 571.03 ITEM NAME: DISPOSAL OF HAZARDOUS PAINT REMOVAL WASTE CONTAINING LEAD UNIT: LB

Drawing / Detail References: _____

Calculations:

ASSUME **10** LB OF COAL SLAG ABRASIVE USED PER SQUARE FOOT

ASSUME **35%** OF ABRASIVE USED IS DISPOSED AS WASTE

ASSUME **3.5** LB OF COAL SLAG ABRASIVE USED PER SQUARE FOOT

REMOVING **13,145** SQUARE FEET OF PAINTED SURFACES

EQUALS **46,008** LB OF ABRASIVE TO DISPOSE

SAY 46,008 LB

SHEET 1 OF 1

Estimated Quantity: **46,008 LB**

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 Calculated By: J. Landry Date: 8/13/2026
 Checked By: R. Myers Date: 8/25/2026

QUANTITY WORKUPS

ITEM NO. **580.01** ITEM NAME: **REMOVAL OF STRUCTURAL CONCRETE** UNIT: **CY**

Drawing / Detail References: _____

Calculations:

JOINTS:

	LENGTH			WIDTH			DEPTH			VOLUME		
BA	42.151	FT	x	1.00	FT	0.420	FT	=	17.70	CF	=	0.66 CY
P1	42.151	FT	x	3.00	FT	1.250	FT	=	158.07	CF	=	5.85 CY
P2	42.151	FT	x	1.00	FT	1.000	FT	=	42.15	CF	=	1.56 CY
P3	42.151	FT	x	3.00	FT	1.250	FT	=	158.07	CF	=	5.85 CY
EA	42.151	FT	x	1.00	FT	0.420	FT	=	17.70	CF	=	0.66 CY
											14.58 CY TOTAL JOINTS	

Total 14.58 CY

SAY 15 CY

SHEET 1 OF 1

Estimated Quantity: **15 CY**

Project: **Mariaville Rd Bridge Rehabilitation**
 Client: **Thruway** Job No.: **ALB-2300017.07**
 Calculated By: **J. Landry** Date: **6/30/2026**
 Checked By: **R. Myers** Date: **10/14/2026**

QUANTITY WORKUPS

ITEM NO. **582.0051** ITEM NAME: **REMOVAL AND REPLACEMENT OF STRUCTURAL CONCRETE** UNIT: **CY**

Drawing / Detail References: _____

Calculations:

SUPERSTRUCTURE:

LENGTH	WIDTH	DEPTH	
3.00 FT x	3.00 FT x	0.50 FT =	4.5 CF = 0.17 CY deck top surface spalling location 1

BEGIN ABUTMENT:

HEIGHT	WIDTH	DEPTH	
5.00 FT x	4.00 FT x	0.25 FT =	5.0 CF = 0.19 CY BA loc 1
2.00 FT x	3.00 FT x	0.25 FT =	1.5 CF = 0.06 CY BA loc 2
1.00 FT x	1.00 FT x	0.25 FT =	0.3 CF = 0.01 CY BA loc 3
1.00 FT x	1.00 FT x	0.25 FT =	0.3 CF = 0.01 CY BA loc 4
1.00 FT x	1.00 FT x	0.25 FT =	0.3 CF = 0.01 CY BA loc 5
2.00 FT x	2.00 FT x	0.25 FT =	1.0 CF = 0.04 CY BA loc 6
3.00 FT x	1.00 FT x	0.25 FT =	0.8 CF = 0.03 CY BA loc 7
3.00 FT x	2.00 FT x	0.25 FT =	1.5 CF = 0.06 CY BA loc 8
1.00 FT x	2.00 FT x	0.25 FT =	0.5 CF = 0.02 CY BA loc 9
			0.41 CY TOTAL BEGIN

END ABUTMENT:

HEIGHT	WIDTH	DEPTH	
6.00 FT x	2.00 FT x	0.25 FT =	3.0 CF = 0.11 CY EA loc 1
1.00 FT x	3.00 FT x	0.25 FT =	0.8 CF = 0.03 CY EA loc 2
1.00 FT x	2.00 FT x	0.25 FT =	0.5 CF = 0.02 CY EA loc 3
1.00 FT x	2.00 FT x	0.25 FT =	0.5 CF = 0.02 CY EA loc 4
3.00 FT x	3.00 FT x	0.25 FT =	2.3 CF = 0.08 CY EA loc 5
2.00 FT x	2.00 FT x	0.25 FT =	1.0 CF = 0.04 CY EA loc 6
2.00 FT x	5.00 FT x	0.25 FT =	2.5 CF = 0.09 CY EA loc 7
2.00 FT x	3.00 FT x	0.25 FT =	1.5 CF = 0.06 CY EA loc 8
6.00 FT x	5.00 FT x	0.25 FT =	7.5 CF = 0.28 CY EA loc 9
			0.7 CY TOTAL END

Sheet Total: **SAY 2 CY**

SHEET 2 OF 2

Total Estimated Quantity: **4 CY**

Project: **Mariaville Rd Bridge Rehabilitation**
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 Calculated By: J. Landry Date: 7/9/2026
 Checked By: R. Myers Date: 8/25/2026

QUANTITY WORKUPS

ITEM NO. **589.010003** ITEM NAME: **REMOVAL OF EXISTING STEEL** UNIT: **LB**

Drawing / Detail References: _____

Calculations:

Assume 490 LB / CF of steel

Lockup Plates, Girders 4, 5, & 6 at Pier 2

Dimensions approximated from inspection report photos

# Plates	Length	Width	Thickness	
3.00 X	0.25 FT X	1.00 FT X	0.08 FT	= 0.06 CF X 490 LB/CF = 30.63 LB

Location 1:

(2) 4x4x5/16 Angles @ 15ft	=	246.00 lbs
(2) 4x4x5/16 Angles @ 10ft	=	164.00 lbs
(2) 4x4x5/16 Angles @ 5ft	=	82.00 lbs
(4) 4x4x5/16 Angles @ 5ft	=	164.00 lbs
(3) C6X8.2 @ 15ft	=	369.00 lbs

TOTAL ALL LOCATIONS: 1055.63 lbs

add 20% for contingency: 1266.8 lbs

Total 1,266.75 LB

SAY 2,000 LB

SHEET 1 OF 1

Estimated Quantity: **2000 LB**

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Calculated By: J. Landry Date: 7/9/2026
Checked By: R. Myers Date: 8/25/2026

QUANTITY WORKUPS

ITEM NO. 606.53 ITEM NAME: RESETTING BOX BEAM GUIDE RAILING UNIT: LF

Drawing / Detail References: _____

Calculations:

Reset guiderail posts begin abutment left: 30 LF

SHEET 1 OF 1

Estimated Quantity: **30 LF**

QUANTITY WORKUPS

ITEM NO. 645.61000125 ITEM NAME: INSTALL OVERHEAD SIGN PANEL (THRUWAY PROVIDED) UNIT: SF

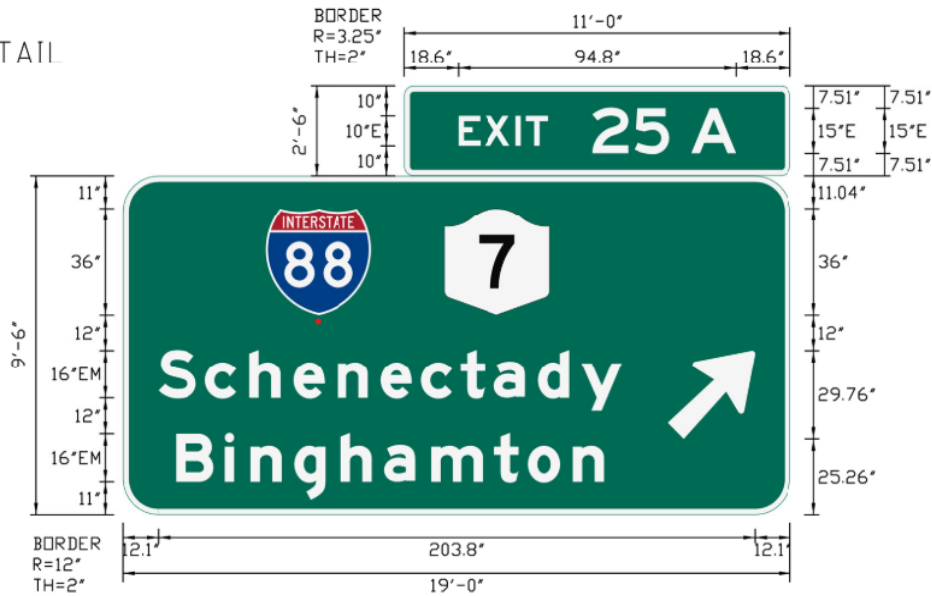
Drawing / Detail References:

Calculations:

Sign Panel Main: 9.5' x 19.0' = 181 sf

Sign Panel Supp: 2.5' x 11.0' = 28 sf

SIGN DETAIL
1:60



SHEET 1 OF 1

Estimated Quantity:

208

SF